

**GENOTYPING BY PCR PROTOCOL
MUTANT MOUSE REGIONAL RESOURCE CENTER**

sacoord@mmrrc.org

800-910-2291 North America, +1-530-757-5710 International

Please provide the following information required for genetic analysis of your mutant mice.

Note to MAC users: to ensure your graphic can be viewed on a PC please follow the steps below when inserting the graphic into this document. DO NOT drag and drop or copy/paste the graphic into this document.

- *Open the original graphic in the program that created it*
- *Choose File, Save As*
- *Select No Compression in the save options.*
- *Save as JPG or PNG or similar format that's compatible with both PC and Mac Word versions.*
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These instructions are very generic. The menu options for your graphics program may be different.

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Strain Name Asc11-TdTomato2		MMRRC Stock Number 43552

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NAME OF PCR: Ascl1-TdTomato **MMRRC:** 43552

Protocol: *(PCR protocol provided by Donating Investigator)*

Reagent/Constituent	Volume (µL)
Water	6.9
10x Buffer	1.2
Loading buffer(10x Sucrose+dye)	1.2
	.24
Primer 1. (stock concentration is 20µM)	.12
Primer 2. (stock concentration is 20µM)	.12
Primer 3. (stock concentration is 20µM)	.12
Taq Polymerase 5Units/µL	.1
Earpunch DNA extracted w/ NaOH at 95C for 1 hour, quenched in Tris buffer	2
<i>The total volume is auto-calculated based on volumes entered, right click the total and update field to show/recalculate the total volume.</i>	TOTAL VOLUME OF REACTION: 12 µL

Comments on protocol:

- Hotstart not necessary but helpful.

Strategy:

Steps	Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? <input type="checkbox"/>	98	2:00	1
2. Denaturation	98	0:10	
3. Annealing steps 2-3-4 cycle in sequence	60	0:30	35x
4. Elongation	72	0:30	
6. Finish	4	∞	n/a

Primers:

Electrophoresis Protocol:

Name	Nucleotide Sequence (5' - 3')	Argarose: 1.5%	V:110
1. WT_F	AACTGATGCGCTGCAAACG	Estimated Running:Time: 25 min.	
2. Com_R	CCATCCCCACATGAAGCGTA	Primer Combination	Band
3. Mut_F	AGGATCCATGAATGGGCACG	WT_F/Com_R	489 bp
4.		Mut_F/Com_R	707 bp
5.			bp
			Genotype
			WT
			Mut

Please size gel images to fit in this space

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Protocol / Gel Comments:

Gel is 12 ul of total reaction loaded on a 1.5% gel. Ladder is 2-Log ladder from NEB. Lanes are Wildtype, homozygous, heterozygous (94, 99, 165), respectively.

Gel pictures:

